

CLAIMS

1. A method in a strand coating system, the method comprising:
drawing a strand past an adhesive dispensing nozzle,
the strand having an axial dimension;
controlling an orientation of at least a portion of the strand about its axial
dimension as the portion of the strand is drawn past the adhesive dispensing nozzle.
2. The method of Claim 1, aligning the strand along a drawing path relative to
the adhesive dispensing nozzle with a strand guide member.
3. The method of Claim 1, controlling the orientation of the portion of the strand
includes preventing twisting of the portion of the strand about its axial dimension as the portion
of the strand is drawn past the adhesive dispensing nozzle.
4. The method of Claim 1,
the strand having at least one substantially flat side along its axial dimension;
controlling the orientation of the portion of the strand about its axial dimension
by engaging the substantially flat side of the strand.

5. The method of Claim 1,

the strand having a substantially rectangular cross-sectional shape with minor and major dimensions,

controlling the orientation of the strand includes aligning the major dimension of the strand substantially parallel with a direction in which the adhesive dispensing nozzle dispenses adhesive.

6. The method of Claim 1,

guiding the strand along a first path with a first strand guide member, the first path member not aligned with the adhesive dispensing nozzle,

guiding the strand along a second path with a second strand guiding member, the second path aligned with the adhesive dispensing nozzle,

the second strand guiding member located between the first strand guiding member and the adhesive dispensing nozzle,

controlling the orientation of the strand about its axial dimension with the second strand guiding member.

7. The method of Claim 1,

guiding the strand with a first strand guide member,

controlling the orientation of the strand about its axial dimension with the second strand guiding member located between the first strand guiding member and the adhesive

dispensing nozzle.

8. A method in a strand coating system, the method comprising:
drawing a strand having major and minor dimensions past an adhesive dispensing nozzle,
orienting at least a portion of the strand so that the major dimension of the strand is substantially parallel to a direction in which adhesive is dispensed from the adhesive dispensing nozzle as the portion of the strand is drawn past the adhesive dispensing nozzle;
applying adhesive to the strand as the strand is drawn past the adhesive dispensing nozzle.

9. The method of Claim 8, applying adhesive to the strand as the strand is drawn past the adhesive dispensing nozzle includes capturing a vacillating adhesive filament dispensed from the adhesive dispensing nozzle on opposite sides of the strand oriented substantially parallel to the direction in which adhesive is dispensed from the adhesive dispensing nozzle.

10. The method of Claim 8,
preventing twisting of the portion of the strand oriented so that the major dimension of the strand is substantially parallel to a direction in which adhesive is dispensed from the adhesive dispensing nozzle as the portion of the strand is drawn past the adhesive dispensing nozzle.

11. The method of Claim 8, aligning the strand along a drawing path relative to the adhesive dispensing nozzle before orienting the portion of the strand.

12. The method of Claim 8,
guiding the strand along a first path with a first strand guide member, the first path member not aligned with the adhesive dispensing nozzle,
guiding the strand along a second path with a second strand guiding member, the second path aligned with the adhesive dispensing nozzle,
the second strand guiding member located between the first strand guiding member and the adhesive dispensing nozzle,
orientating the strand about its axial dimension so that the major dimension of the strand is substantially parallel to the direction in which adhesive is dispensed from the adhesive dispensing nozzle with the second strand guiding member.

13. The method of Claim 8,
guiding the strand with a first strand guide member,
orientating the strand about its axial dimension so that the major dimension of the strand is substantially parallel to the direction in which adhesive is dispensed from the adhesive dispensing nozzle with the second strand guiding member.

"Strand Orientation Alignment In Strand
Coating Systems And Methods"
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14. A strand coating system, comprising:
an adhesive dispensing device having an adhesive dispensing orifice;
a strand guide member;
a strand axial orientation aligning member coupled to the adhesive dispensing device,

the strand axial orientation aligning member positioned in substantial alignment with the adhesive dispensing orifice, the strand axial orientation aligning member disposed between the strand guide member and the adhesive dispensing orifice.

15. The strand coating system of Claim 14, the strand axial orientation aligning member is a pin having an axis extending substantially transverse to a direction in which a strand is drawn past the adhesive dispensing device.

16. The strand coating system of Claim 14,
adhesive dispensing device includes an adhesive dispensing nozzle apparatus coupled to a module,
the strand axial orientation aligning member coupled to the module.

17. The strand coating system of Claim 16, the strand axial orientation aligning member is a pin having an axis extending substantially parallel to a direction in which adhesive

is dispensed from the adhesive dispensing orifice.

18. The strand coating system of Claim 16, the strand guide member is coupled to the module.

19. The strand coating system of Claim 18, the strand guide member is strand guide roller adjustably coupled to the module.

20. The strand coating system of Claim 14, the strand guide member includes a strand guide not aligned with the adhesive dispensing orifice.